UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/980,006	05/09/2002	Jan Hall	21547/0283	9722
Burton A Amer	7590 07/23/200 nick	EXAMINER		
Connolly Bove Lodge & Hutz PO Box 19088 Washington, DC 20036-0088			COMSTOCK, DAVID C	
			ART UNIT	PAPER NUMBER
			3733	
			MAIL DATE	DELIVERY MODE
			07/23/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	09/980,006	HALL ET AL.			
Office Action Summary	Examiner	Art Unit			
	DAVID COMSTOCK	3733			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	S		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	1. lely filed the mailing date of this commun (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>05 Ju</u>	ne 2008.				
	action is non-final.				
<i>;</i> —	, 				
closed in accordance with the practice under E					
Disposition of Claims					
4)⊠ Claim(s) <u>1,3,5-7,9-19 and 21</u> is/are pending in	the application.				
4a) Of the above claim(s) <u>16-18</u> is/are withdraw					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,3,5-7,9-15,19 and 21</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examine	•				
10)⊠ The drawing(s) filed on <u>31 May 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 LLS C & 110(a)	(d) or (f)			
a)⊠ All b)□ Some * c)□ None of:	priority under 35 0.3.C. § 119(a)	-(u) or (r).			
1.☐ Certified copies of the priority documents	s have been received				
2. Certified copies of the priority documents		on No			
			^		
	3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of	• • • • • • • • • • • • • • • • • • • •	d			
dee the attached detailed Office action for a list of	or the certified copies not receive	u.			
Attachment(s)	.	(DTO 440)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da				
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal P				
Paper No(s)/Mail Date	6) Other:				

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 5-7, 9-15, 19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hahn (U.S. Pat. no. 3,605,123).

Hahn discloses and implant a layer (13) that constitutes a barrier with a substantial thickness. The layer has a channel network with porosity (figure 1-4, col 2:43-45) and mouths which are adapted to face a bone structure (see figure 2 and 3) and as disclosed, the mouth cross section diameter are less than the respective extents of the channel. Hahn discloses that the layer can be established on undulating or uneven surfaces (for example the threads of a screw (col 1:32-37)). The screw could be used for dental applications (col 5:46-50). Also, it is noted that the surface shown in figure 2 is undulating and uneven. Hahn also discloses the layer with a channel network having channel branches through the layer extending in all directions. The layer has a thickness up to 0.1 inch (col 3:49-50), which is in the range of 0.5-20 micrometer. Hahn discloses the claimed invention except for having a porosity of 1x10E7-1x10E10 pores/cm3 and with a mouth diameter in the range of 0.1-10 micrometers. It would have been obvious to one having ordinary skill in the art at the time the invention was

Application/Control Number: 09/980,006

Art Unit: 3733

made to construct the implant of Hahn with any of numerous ranges of dimensions including, for example, a layer having a porosity of 1x10E7-1x10E10 pores/cm3 and with a mouth diameter in the range of 0.1-10 micrometers, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233. It is also noted that changing pore density and pore sizes is known in the art (e.g., Pilliar U.S. Pat. no. 3,855,638). Regarding claim 11, Hahn discloses the claimed invention except for the layer consisting of titanium oxide. It would have been obvious to one having ordinary skill in the art at the time the invention was made to make the layer of Hahn with titanium oxide, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416. It is also noted that using such materials as titanium oxide or titanium alloy is known in the art (e.g., Pilliar U.S. Pat. no. 3,855,638). With regard to the statement of intended use and other functional statements, they do not impose any structural limitations on the claims distinguishable over Hahn which is capable of being used as claimed if one so desired. In re Casey, 152 USPQ 235 (CCPA 1967) and In re Otto, 136 USPQ 458, 459 (CCPA 1963). Furthermore, the law of anticipation does not require that the reference "teach" what the subject patent teaches, but rather it is only necessary that the claims under attack "read on" something in the reference. Kalman v. Kimberly Clark Corp., 218 USPQ 781 (CCPA 1983). Furthermore, the manner in which a device is intended to be

Page 3

employed does not differentiate the claimed apparatus from prior art apparatus satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).

Response to Arguments

Applicant's arguments regarding the newly amended claims have been fully considered but are not persuasive.

It is noted that it is not necessary that the reference disclose identical materials, ranges of dimensions, etc. It has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233. Likewise, selecting a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Comstock whose telephone number is (571) 272-4710. Please leave a detailed voice message if examiner is unavailable. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached at (571) 272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/David Comstock/

Examiner, Art Unit 3733

/Eduardo C. Robert/

Supervisory Patent Examiner, Art Unit 3733